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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/688,657	10/17/2003	Qiang Luo	89038PCW	1222	
1333 PATENT LEG	7590 01/11/2007 AL STAFF	EXAMINER			
	ODAK COMPANY	HENN, TI	HENN, TIMOTHY J		
343 STATE ST ROCHESTER,	rreet NY 14650-2201		ART UNIT	PAPER NUMBER	
	,		2622		
SUOP TENED STATUTOR	AV BENIOD OF DESCOVER				
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MO	NTHS	01/11/2007 PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application	on No.	Applicant(s)			
Office Action Summary		10/688,65	57	LUO, QIANG			
		Examiner		Art Unit			
		Timothy J	Henn	2622			
Period fo	The MAILING DATE of this communication Reply	n appears on the	cover sheet wit	th the correspondence a	ddress		
WHIC - Extens after S - If NO   - Failure Any re	PRTENED STATUTORY PERIOD FOR RIMEVER IS LONGER, FROM THE MAILIN sions of time may be available under the provisions of 37 CF IX (6) MONTHS from the mailing date of this communication being the reply within the set or extended period for reply will, by sply received by the Office later than three months after the date of the provision of the office later than three months after the date of the provision of the Office later than three months after the date of the office later than three months after the office later than three months after the office later than three months after the date of the office later than three months after the date of the office later than three months after the office later three months after the office later than three months after the office later than thr	IG DATE OF THE FR 1.136(a). In no evo on. period will apply and wi statute, cause the app	IIS COMMUNIC ent, however, may a re II expire SIX (6) MONI lication to become ABA	CATION. ply be timely filed  I'HS from the mailing date of this of the control of			
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1)🛛	Responsive to communication(s) filed on	17 October 200	3	•			
,		This action is n			•		
,	,			ers prosecution as to th	e merits is		
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	on of Claims	<b>- - - - -</b>	.,.,				
•		- 4:					
	Claim(s) <u>1-19</u> is/are pending in the applica		naidanatian	•			
	a) Of the above claim(s) is/are with	nurawn from co	nsideration.				
•	Claim(s) is/are allowed.						
•	Claim(s) <u>1-19</u> is/are rejected.			·			
•	Claim(s) is/are objected to. Claim(s) are subject to restriction a	und/or election r	aquirement				
		illu/or election i	equirement.	•			
Application	on Papers						
	he specification is objected to by the Exa			. '			
10)⊠ The drawing(s) filed on <u>17 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the co		•	,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119			• .			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority docur						
•	2. Certified copies of the priority documents have been received in Application No						
. ;	3. Copies of the certified copies of the priority documents have been received in this National Stage						
•	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(	s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Information Disclosure Statement(s) (PTO/SB/08)  6) Other:							

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Prentice et al. (US 2003/0030729).

### [claim 8]

Regarding claim 8, Prentice discloses an apparatus for reducing charge diffusion crosstalk, comprising: means for inputting crosstalk coefficients for a first pixel of a first color for reducing diffusion crosstalk (Figure 5, Item 77 or Figure 6, Item 102); means for sampling the first pixel to produce a first measured pixel value and means for sampling the adjacent pixels to produce adjacent measured pixel values (Figures 5 and 6; RAW IMAGE DATA; Figure 1, CCD CLOCK DRIVERS and CCD TIMING GENERATOR); and means for applying the crosstalk coefficients to the first measured pixel and the adjacent measured pixel values such that crosstalk effects are reduced in the first measured pixel value (Figure 5, Item 90 or Figure 6, Item 104; Paragraph 0039 or 0052).

#### [claim 9]

Regarding claim 9, Prentice discloses adjacent pixels which are selected from a group consisting of pixels immediately surrounding the first pixel (e.g. Figure 4).

### [claim 10]

Regarding claim 10, Prentice discloses adjacent pixels of different colors are of two colors (e.g. R and B) immediately surrounding the first pixel (e.g. G; Figure 4).

### [claim 11]

Regarding claim 11, Prentice discloses an apparatus further comprising means for applying color correction coefficients (e.g. Hue and Saturation) to the first measured pixel value and the adjacent measured pixel values such that the first color filter spectral response is improved in the first measured pixel (Figure 3B; Paragraph 0039 or 0052).

#### [claim 12]

Regarding claim 12, Prentice discloses combining the crosstalk and color correction coefficients (Paragraph 0039 or 0052).

### [claim 13]

Regarding claim 13, Prentice discloses combining the coefficients are combined in a matrix which is available prior to applying crosstalk correction (Paragraph 0039 or 0052).

#### [claim 14]

Regarding claim 14, Prentice discloses applying crosstalk coefficients in a motion mode using a LUT (Paragraphs 0056-0059). The examiner notes that a LUT does not use multiplier means or adding means, therefore the limitation of applying crosstalk coefficients "using no more than three multiplier means and no more than two adder

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means" is met by at least the motion mode processing path of Prentice.

## [claims 1-7]

Claims 1-7 are method claims corresponding to apparatus claims 8-14.

Therefore, claims 1-7 are analyzed and rejected as previously discussed with respect to claims 8-14.

### [claims 15-19]

Regarding claims 15-19, see claims 8-11 and 14 respectively.

#### Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

i. ,	Edgar et al.	US 5,673,336
ii.	Ford	US 6,965,692
iii.	Skow	US 7,102,669

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Henn whose telephone number is (571) 272-7310. The examiner can normally be reached on M-F 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TJH 1/4/2007

> VIVEK SRIVASTAVA SUPERVISORY PATENT EXAMINER TECHNOLOGY GENTER 2600